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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		10/052,039	PARDIKAR ET AL.		
		Examiner	Art Unit		
		Ranodhi Serrao	2141		
The MAILING DAT Period for Reply	E of this communication	appears on the cover sheet w	ith the correspondence address		
WHICHEVER IS LONGE  - Extensions of time may be availa after SIX (6) MONTHS from the If NO period for reply is specified - Failure to reply within the set or a	R, FROM THE MAILIN able under the provisions of 37 CF mailing date of this communication above, the maximum statutory pextended period for reply will, by slater than three months after the incommunication of the provision of th	G DATE OF THIS COMMUNION FR 1.136(a). In no event, however, may a rn.	reply be timely filed  ITHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).		
Status					
1) Responsive to com	nmunication(s) filed on	18 January 200 <u>6</u> .			
· — ·	a) ☐ This action is <b>FINAL</b> . 2b) ☑ This action is non-final.				
3) Since this applicati	ce this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordan	ce with the practice und	der <i>Ex parte Quayle</i> , 1935 C.D	). 11, 453 O.G. 213.		
Disposition of Claims					
4)⊠ Claim(s) <u>1-41</u> is/ar	e pending in the applica	ation.			
4a) Of the above cl	aim(s) is/are with	ndrawn from consideration.			
5) Claim(s) is/a	are allowed.				
6)⊠ Claim(s) <u>1-41</u> is/ar	•				
7) Claim(s) is/a	-				
8) Claim(s) are	e subject to restriction a	nd/or election requirement.			
Application Papers					
9) The specification is	objected to by the Exa	miner.			
10) The drawing(s) filed	l on is/are: a)□	accepted or b) ☐ objected to	by the Examiner.		
• • • • • • • • • • • • • • • • • • • •	, , ,	the drawing(s) be held in abeyar			
•	• ,,	·	(s) is objected to. See 37 CFR 1.121(d).		
11) The oath or declara	ition is objected to by th	e Examiner. Note the attached	d Office Action or form PTO-152.		
Priority under 35 U.S.C. § 1	19	•			
12)  Acknowledgment is a) All b) Some		eign priority under 35 U.S.C. §	§ 119(a)-(d) or (f).		
1. Certified cop	ies of the priority docur	nents have been received.			
2. Certified cop	ies of the priority docur	ments have been received in A	Application No		
3. Copies of the	e certified copies of the	priority documents have been	received in this National Stage		
•••		ureau (PCT Rule 17.2(a)).			
* See the attached de	tailed Office action for a	a list of the certified copies not	received.		
Attachment(s)					
1) Notice of References Cited (F	PTO-892)	4) LI Interview	Summary (PTO-413)		

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)

Paper No(s)/Mail Date \_

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

4) Interview Summary (PTO-413) Paper No(s)/Mail Date. \_\_\_\_

6) Other: \_\_\_\_\_.

5) Notice of Informal Patent Application (PTO-152)

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### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 18 January 2006 has been entered.

# Response to Arguments

- 2. Applicant's arguments filed 18 January 2006 have been fully considered but they are not persuasive.
- 3. The applicant argued in substance the newly added limitations, "by obtaining capability information from the WebDAV server." However, upon further consideration, it has been determined that the prior arts of record teach the newly added limitations. See rejections below.
- 4. All arguments regarding the rejection under 35 U.S.C. 102(e) as anticipated by French have been addressed since this rejection has been replaced.
- 5. Turning to the 35 U.S.C. 103(a) rejections, the applicant argued that the system of Serlet does not need to determine whether or not the WebDAV server is capable of handling specific file requests. The examiner points to col. 6, lines 25-64, wherein Serlet describes receiving a response from the WebDAV/HTTP server which includes

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information appropriate to the request. A returned error code status indicates that the specific file request could not be handled by the WebDAV server. This is furthermore explained in col. 8, lines 26-53.

- 6. The applicant furthermore argued that Serlet does not teach using an HTTP OPTIONS request in the manner recited in claim 4. However in col. 7, lines 35-56, Serlet discloses requests that serve the function of HTTP OPTIONS requests. This reasoning is logical since it is in accordance with the rejection of claim 1 limitation of communicating with the WebDAV server to determine whether the request can be handled. This reasoning can be further applied to the argument of claim 5.
- 7. Moreover the applicant argued that Serlet teaches systems that are wholly unconcerned with determining whether or not a remote server can handle this type of request, because the very nature of the pre-configured relationship mitigates the need to check in the first place. In response, the examiner points to col. 5, lines 20-52 wherein Serlet states, "In this embodiment, if the private network server is not a WebDAV enabled HTTP server, the information is passed to the operating system to be handled according to methods known to those skilled in the art." From this statement it can be shown that it is inherent that the system of Serlet needs to determine whether or not a remote server can handle a type of request when declaring that the private network server is not a WebDAV enabled HTTP server. And in col. 6, lines 25-64, capability information is given in the status response from the WebDAV server.
- 8. In conclusion, the prior arts of record teach the invention as claimed. See rejections below.

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# Claim Rejections - 35 USC § 102

9. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

- 10. Claims 16-23, 25-27, 32-35, and 38 are rejected under 35 U.S.C. 102(e) as being anticipated by Serlet et al. (6,842,770).
- 11. As per claim 16, Serlet et al. teaches a computer-implemented method, comprising: receiving at a local programming interface layer an application request that relates to a Uniform Resource Identifier (column 4, line 54-column 5, line 2 and column 5, lines 20-52); providing information corresponding to the request to a local WebDAV redirector (col. 11, lines 24-49); and determining at the WebDAV redirector whether a server identified via the application request comprises WebDAV-enabled server by obtaining capability information from the server, and if so, handling the request (col. 5, lines 20-52).
- 12. As per claim 17, Serlet et al. teaches the application request includes the Universal Resource Identifier (column 5, lines 20-52).
- 13. As per claim 18, Serlet et al. teaches a method wherein the application request includes an identifier that has been previously mapped to at least part of the Universal Resource Identifier (column 9, lines 54-63).
- 14. As per claim 19, Serlet et al. teaches a method of providing information corresponding to the request to a local WebDAV redirector comprises polling a set of at least one redirector (col. 6, lines 25-54: wherein status information serves the function of polling).

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15. As per claim 20, Serlet et al. teaches a method of providing information corresponding to the request to a local WebDAV redirector comprises polling a set of at least one network provider (col. 6, lines 25-54: wherein status information serves the function of polling).

- 16. As per claim 21, Serlet et al. teaches a method wherein the application request comprises an I/O request directed to a file, and wherein handling the request comprises creating a local file corresponding to the I/O request (column 7, lines 35-56).
- 17. As per claim 22, Serlet et al. teaches downloading at least some file data from the WebDAV server to the local file (column 4, lines 27-53: wherein accessing information serves as downloading file data).
- 18. As per claim 23, Serlet et al. teaches returning a file handle corresponding to the local file to the application (column 11, lines 24-49).
- 19. As per claim 25, Serlet et al. teaches determining at the WebDAV redirector whether the server identified via the application request comprises a WebDAV-enabled server includes, issuing an HTTP OPTIONS request to the server, and evaluating a corresponding response (column 6, line 65-column 7, line 34: wherein the request is an options request since it can be a command to write file, rename file, rename directory, etc.).
- 20. As per claim 26, Serlet et al. teaches the application program's request indicates a share on the WebDAV server and further comprising, issuing a WebDAV PROPFIND request directed to the share on the WebDAV server (column 11, lines 24-49).

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21. As per claim 27, Serlet et al. teaches a method wherein the application program's request further indicates a file on the share on the WebDAV server, and further comprising, issuing a WebDAV PROPFIND request directed to the file (column 11, lines 24-49).

- 22. As per claim 32, Serlet et al. teaches a computer-readable medium having computer-executable instructions for performing the method claim 16 (column 2, line 51-column 3, line 19).
- 23. As per claim 33, Serlet et al. teaches in a computer network, a system comprising, an application program that issues WebDAV-related requests including at least one request having an identifier corresponding to a WebDAV server (column 6, lines 25-64); a WebDAV redirector, the WebDAV redirector configured to communicate with a network server to obtain capability information thereof (col. 11, lines 24-49), and to evaluate the capability information to determine whether the network server comprises a WebDAV-enabled server (col. 6, lines 25-64; wherein the response from the WebDAV/HTTP server serves the function of capability information); and when the capability information indicates that the network server is WebDAV-enabled, the WebDAV redirector locally handling each request corresponding to the WebDAV server that can be handled locally, and communicating with the WebDAV server to handle requests that cannot be handled locally (col. 7, lines 35-56).
- 24. As per claim 34, Serlet et al. teaches a system wherein the identifier corresponding to a WebDAV server issued by the application comprises a Universal Resource Identifier (column 5, lines 20-52).

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25. As per claim 35, Serlet et al. teaches a system wherein the identifier corresponding to a WebDAV server issued by the application comprises an identifier previously mapped to a share on the WebDAV server (column 9, lines 54-63).

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As per claim 38, Serlet et al. teaches a system that: creates a local 26. representation of the file (column 6, line 65-column 7, line 34); determines whether the file exists on the WebDAV server, and if so, downloads at least some of the data from the WebDAV server file to the local representation of the file (column 4, lines 27-53: wherein accessing information serves as downloading file data); returns a file handle corresponding to the local representation of the file to the application program (column 11, lines 24-49); receives I/O read and write requests associated with the file handle and handles the I/O read and write requests via the local representation of the file (column 11, lines 24-49; column 12, lines 35-44); and receives an I/O close request associated with the file handle, and handles the I/O close request by closing the local representation of the file and uploading at least part of the local representation of the file to the WebDAV server (column 11, lines 24-49).

### Claim Rejections - 35 USC § 103

- 27. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- Claims 1-11, 15, 36, and 37 are rejected under 35 U.S.C. 103(a) as being 28. unpatentable over Serlet et al. and French (6,654,794).

29. As per claim 1, Serlet et al. teaches in a computer network, a method comprising directing the I/O request to a WebDAV redirector communicating with the WebDAV server to determine whether the request can be handled by obtaining capability information from the WebDAV server (see Serlet et al., col. 6, lines 25-64; wherein the response from the WebDAV/HTTP server serves the function of capability information). and if so, requesting a file system to create the file (see Serlet et al., col. 7, lines 35-56), downloading the file to a local cache of the file system (see Serlet et al., col. 9, lines 54-63); returning a file handle corresponding to the file in the local cache to the application program (see Serlet et al., col. 11, lines 24-49); and providing access to the file in the local cache of the file system via the file handle (see Serlet et al., col. 9, line 64-col. 10, line 13); and receiving a request to close the file via the file handle, and when received, uploading the file from the local cache of the file system to the WebDAV server (see Serlet et al., col. 12, lines 45-54). But fails to teach receiving at an I/O manager an I/O request initiated from an application program directed to a file on a WebDAV server. French teaches receiving at an I/O manager an I/O request initiated from an application program directed to a file on a WebDAV server (col. 4, line 58-col. 5, line 19). It would have been obvious to one having ordinary skill in the art at the time of the invention to modify Serlet et al. to receiving at an I/O manager an I/O request initiated from an application program directed to a file on a WebDAV server in order to provide a client with an improved network file system driver for accessing a remote resource maintained by a server in communication with the client via a data network (see French, col. 2, lines 1-7).

- 30. As per claims 2-11, and 15, the above-mentioned motivation of claim 1 stands as the motivation to further combine Serlet et al. and French.
- 31. As per claim 2, Serlet et al. and French teach receiving an I/O request initiated from an application program comprises, receiving a Universal Resource Identifier corresponding to a file on the WebDAV server (see Serlet et al., column 9, lines 38-53).
- 32. As per claim 3, Serlet et al. and French teach wherein receiving an I/O request initiated from an application program comprises, receiving a filename and an identifier previously mapped to a share on the WebDAV server (see Serlet et al., column 9, lines 54-63).
- 33. As per claim 4, Serlet et al. and French teach a method of communicating with the WebDAV server to determine whether the request can be handled, comprises, issuing an HTTP OPTIONS request, and evaluating a response therefrom (see Serlet et al., column 7, lines 35-56: wherein requests to create or delete a file or directory, etc. serve the function of HTTP OPTIONS request).
- 34. As per claim 5, Serlet et al. and French teach a method of communicating with the WebDAV server to determine whether the request can be handled, comprises, issuing a WebDAV PROPFIND request directed to share on the WebDAV server, and evaluating a response therefrom (see Serlet et al., column 11, lines 24-49).
- 35. As per claim 6, Serlet et al. and French teach a method wherein the WebDAV server returns property information in response to the WebDAV PROPFIND request directed to the share and further comprising, maintaining the property information in a

local data structure (see Serlet et al., column 8, line 66-column 9, line 22; column 11, lines 50-65).

- 36. As per claim 7, Serlet et al. and French teach a method of communicating with the WebDAV server to determine whether the request can be handled, comprises, issuing a WebDAV PROPFIND request directed to on the WebDAV server, and evaluating a response therefrom (see Serlet et al., column 11, lines 24-49).
- 37. As per claim 8, Serlet et al. and French teach a method wherein the WebDAV server returns property information in response to the WebDAV PROPFIND request directed to the file, and further comprising, maintaining the property information in a local data structure (see Serlet et al., column 8, line 66-column 9, line 22; column 11, lines 50-65).
- 38. As per claim 9, Serlet et al. and French teach a method wherein communicating with the WebDAV server to determine whether the request can be handled comprises: issuing an HTTP OPTIONS request, evaluating a corresponding response, and determining that the server a WebDAV server (see Serlet et al., column 6, line 25-64); issuing a WebDAV PROPFIND request directed to a share on the WebDAV server, evaluating a corresponding response, and determining that the share exists on the WebDAV server, the response including share property information; and issuing a WebDAV PROPFIND request directed to the file, evaluating a corresponding response, and determining that the file exists, the response including file property information (see Serlet et al., column 11, lines 24-49).

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39. As per claim 10, Serlet et al. and French teach a method of maintaining the share property information and the file property information in at least one local data structure (see Serlet et al., column 8, line 66-column 9, line 22; column 11, lines 50-65).

- 40. As per claim 11, Serlet et al. and French teach a method of communicating with the WebDAV server indicates that the request can be handled, and further comprising, communicating with at least one other local component to indicate that at least this request can be handled (see Serlet et al., column 5, lines 20-52).
- 41. As per claim 15, Serlet et al. and French teach a computer-readable medium having computer-executable instructions for performing the method claim 1 (see Serlet et al., column 2, line 51-column 3, line 19).
- 42. As per claim 36, Serlet et al. teaches the above-mentioned limitations of claim 33, but fails to teach a system wherein the WebDAV redirector receives requests from the application via an application programming interface. However, French teaches a system wherein the WebDAV redirector receives requests from the application via an application programming interface (see French, col. 4, line 66-col. 5, line 19). It would have been obvious to one having ordinary skill in the art at the time of the invention to modify Serlet et al. to a system wherein the WebDAV redirector receives requests from the application via an application programming interface in order to perform its various operations and to provide the requisite functionality of its features (see French, col. 4, line 66-col. 5, line 19).
- 43. As per claim 37, Serlet et al. teaches the above-mentioned limitations of claim 33, but fails to teach a system wherein the WebDAV redirector receives the I/O request

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from a manager component. However, French teaches a system wherein the WebDAV redirector receives the I/O request from a manager component (see French, col. 4, lines 58-65). It would have been obvious to one having ordinary skill in the art at the time of the invention to modify Serlet et al. to a system wherein the WebDAV redirector receives the I/O request from a manager component in order to order to perform its various operations and to provide the requisite functionality of its features (see French, col. 4, line 66-col. 5, line 19).

- 44. Claims 12-14, and 28-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Serlet et al. (6,842,770) and French (6,654,794) as applied to claims 1 and 16 above, and further in view of Prust (6,714,968).
- 45. As per claim 12, Serlet et al. and French teach the mentioned limitations of claim 1 above, but fail to teach determining that the file is encrypted on the WebDAV server, and wherein downloading the file to a local cache comprises, communicating with the file system to create an image of the file in the local cache that is also encrypted. Prust teaches determining that the file is encrypted on the WebDAV server, and wherein downloading the file to a local cache comprises, communicating with the file system to create an image of the file in the local cache that is also encrypted (see Prust, column 7, lines 39-55: wherein encryption and decryption may be done either when the file is read or written). It would have been obvious to one having ordinary skill in the art at the time of the invention to add determining that the file is encrypted on the WebDAV server, and wherein downloading the file to a local cache comprises, communicating with the file

system to create an image of the file in the local cache that is also encrypted in order to allocate a corresponding storage area for each user and store the respective user information in metadata database (see Prust, col. 7, line 59-col. 8, line 7).

- 46. As per claim 13, Serlet et al. and French teach the mentioned limitations of claims 1 and 12 above, but fail to teach communicating with the file system to open the image of the file such that the file system will transparently decrypt file data on read requests and will transparently encrypt file data on write requests to the file. Prust teaches communicating with the file system to open the image of the file such that the file system will transparently decrypt file data on read requests and will transparently encrypt file data on write requests to the file (see Prust, column 7, lines 39-55: wherein encryption and decryption may be done either when the file is read or written). It would have been obvious to one having ordinary skill in the art at the time of the invention to add communicating with the file system to open the image of the file such that the file system will transparently decrypt file data on read requests and will transparently encrypt file data on write requests to the file in order to allow the user to access the respective storage area via the many access interfaces (see Prust, col. 7, line 59-col. 8, line 7).
- 47. As per claim 14, Serlet et al. and French teach the mentioned limitations of claims 1 and 12 above, but fail to teach uploading the file from the local cache to the WebDAV server comprises, communicating with the file system to read data from the local image of the file such that the file will be uploaded as the encrypted image thereof. Prust teaches uploading the file from the local cache to the WebDAV server comprises,

communicating with the file system to read data from the local image of the file such that the file will be uploaded as the encrypted image thereof (see Prust, column 7, lines 39-55: wherein encryption and decryption may be done either when the file is read or written). It would have been obvious to one having ordinary skill in the art at the time of the invention to add uploading the file from the local cache to the WebDAV server comprises, communicating with the file system to read data from the local image of the file such that the file will be uploaded as the encrypted image thereof in order to prevent unauthorized users from accessing information about other users (see Prust, column 7, lines 39-55).

48. As per claim 28, Serlet et al. teaches the mentioned limitations of claim 16 above but fails to teach the application request comprises an I/O request directed to an encrypted file, and further comprising, automatically decrypting the data locally when downloading the encrypted file from the WebDAV server and automatically encrypting the data locally when uploading the encrypted file to the WebDAV server. However, Prust teaches the application request comprises an I/O request directed to an encrypted file, and further comprising, automatically decrypting the data locally when downloading the encrypted file from the WebDAV server and automatically encrypting the data locally when uploading the encrypted file to the WebDAV server (see Prust, column 7, lines 39-55: wherein encryption and decryption may be done either when the file is read or written). It would have been obvious to one having ordinary skill in the art at the time of the invention to add the application request comprises an I/O request directed to an encrypted file, and further comprising, automatically decrypting the data locally when

downloading the encrypted file from the WebDAV server and automatically encrypting the data locally when uploading the encrypted file to the WebDAV server in order to allocate a corresponding storage area for each user and store the respective user information in metadata database (see Prust, col. 7, line 59-col. 8, line 7).

49. As per claim 29, Serlet et al. teaches the mentioned limitations of claim 16 above, but fails to teach the application request comprises an I/O request directed to a file that is encrypted on the WebDAV server, and wherein handling the request comprises, creating a local file corresponding to the I/O request and downloading an image of the file on the WebDAV server to the local file, wherein the local file is written by a local system such that the image corresponds to the encrypted image on the WebDAV server. However, Prust teaches the application request comprises an I/O request directed to a file that is encrypted on the WebDAV server, and wherein handling the request comprises, creating a local file corresponding to the I/O request and downloading an image of the file on the WebDAV server to the local file, wherein the local file is written by a local system such that the image corresponds to the encrypted image on the WebDAV server (see Prust, column 7, lines 39-55: wherein encryption and decryption may be done either when the file is read or written). It would have been obvious to one having ordinary skill in the art at the time of the invention to add the application request comprises an I/O request directed to a file that is encrypted on the WebDAV server, and wherein handling the request comprises, creating a local file corresponding to the I/O request and downloading an image of the file on the WebDAV server to the local file, wherein the local file is written by a local system such that the

image corresponds to the encrypted image on the WebDAV server in order to allow the user to access the respective storage area via the many access interfaces (see Prust, col. 7, line 59-col. 8, line 7).

- 50. As per claim 30, Serlet et al. and French teach the mentioned limitations of claims 16 and 29 above, but fail to teach communicating with the file system to open the local file such that the file system will transparently decrypt file data read on read requests and will transparently encrypt file data written on write requests. Prust teaches communicating with the file system to open the local file such that the file system will transparently decrypt file data read on read requests and will transparently encrypt file data written on write requests (see Prust, column 7, lines 39-55: wherein encryption and decryption may be done either when the file is read or written). It would have been obvious to one having ordinary skill in the art at the time of the invention to add communicating with the file system to open the local file such that the file system will transparently decrypt file data read on read requests and will transparently encrypt file data written on write requests in order to store data files and communicate the data files to the storage server for storage within the storage area (see Prust, col.1, lines 49-67).
- 51. Claim 31 is rejected under 35 U.S.C. 103(a) as being unpatentable over Serlet et al. and Prust (6,714,968). Serlet et al. and Prust teach the limitations mentioned above in claims 16, 29, and 30 but Prust fails to teach detecting a request to close the local file, closing the local file, communicating with the file system to open the local file such that the file will not be decrypted when read and uploading the file to the WebDAV server as an encrypted file. Serlet et al. however teaches detecting a request to close

the local file, closing the local file, communicating with the file system to open the local file (see Serlet et al., column 11, lines 24-49); such that the file will not be decrypted when read (see Serlet et al., column 12, lines 35-44); and uploading the file to the WebDAV server as an encrypted file (see Serlet et al., column 5, line 60-column 6, line 14: wherein authenticated access functions as being encrypted). It would have been obvious to one having ordinary skill in the art at the time of the invention to add detecting a request to close the local file, closing the local file, communicating with the file system to open the local file such that the file will not be decrypted when read and uploading the file to the WebDAV server as an encrypted file in order to allow only the authorized user to have access to his/her data on the WebDAV server (see Serlet et al., col. 6, lines 15-23).

52. Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Serlet et al. as applied to claim 16 above, and further in view of Deen et al. (6,629,127). Serlet et al. teaches the mentioned limitations of claim 16 above, but fails to teach a networking request to browse a network share on the WebDAV server, and wherein handling the request includes enumerating information of the network share. However, Deen et al. teaches a networking request to browse a network share on the WebDAV server, and wherein handling the request includes enumerating information of the network share (see Deen et al., column 16, line 48-column 17, line 15). It would have been obvious to one having ordinary skill in the art at the time of the invention to add a networking request to browse a network share on the WebDAV server, and wherein handling the

request includes enumerating information of the network share in order to carefully track the structure of the namespace and not the physical layout of the file system (see Deen et al., col. 16, line 48-col. 17, line 15).

- 53. Claims 39-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Serlet et al. (6,842,770) as applied to claim 33 above, and further in view of Prust (6,714,968).
- As per claim 39, Serlet et al. teach the limitations mentioned above in claims 33 54. and 38 and furthermore teaches a system wherein requesting the file system to create a local file that is opened such that transparent encryption and decryption are not enabled therefor (see Serlet et al., column 5, line 60-column 6, line 14: wherein authenticated access may not be enabled by the user); requesting the file system to close the local file (see Serlet et al., column 11, lines 24-49). But fails to teach the WebDAV file is encrypted, and wherein downloading at least some of the encrypted file data by requesting the file system to write to the local file without translation thereof. Prust however teaches the WebDAV file is encrypted (see Prust, column 7, lines 39-55: wherein encryption and decryption may be done either when the file is read or written); downloading at least some of the encrypted file data by requesting the file system to write to the local file without translation thereof (see Prust, column 7, lines 7-34). It would have been obvious to one having ordinary skill in the art at the time of the invention to modify Serlet et al. to a system wherein the WebDAV file is encrypted, and that creates the local representation of the file by downloading at least some of the

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encrypted file data by requesting the file system to write to the local file without translation thereof in order to allow an user to access virtual storage area using a conventional electronic mail software application (see Prust, column 7, lines 7-34).

- 55. As per claim 40, Serlet et al. and Prust teach the limitations mentioned above in claims 33, 38, and 39. Serlet et al. also teaches a system requesting the file system to reopen the local file (column 11, lines 24-49). But fails to teach reads therefrom are decrypted and writes thereto are encrypted. Prust however teaches reads therefrom are decrypted and writes thereto are encrypted (column 7, lines 39-55). It would have been obvious to one having ordinary skill in the art at the time of the invention to add reads therefrom are decrypted and writes thereto are encrypted in order to allocate a corresponding storage area for each user and store the respective user information in metadata database (see Prust, col. 7, line 59-col.8, line 7).
- As per claim 41, Serlet et al. and Prust teach the limitations mentioned above in claims 33, 38, 39, and 40. But Prust fails to teach when the WebDAV redirector handles the I/O close request, and before uploading the file, the WebDAV redirector closes the local representation of the file, and reopens the local file by requesting the file system to open the file such that reads therefrom are not decrypted. Serlet et al. however teaches a method of handling the I/O close request, and before uploading the file, closing the local representation of the file (see Serlet et al., column 11, lines 24-49), and reopening the local file by requesting the file system to open the file such that reads therefrom are not decrypted (see Serlet et al., column 5, line 60-column 6, line 14: wherein authenticated access function as being encrypted). It would have been obvious to one

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having ordinary skill in the art at the time of the invention to add a method of handling the I/O close request, and before uploading the file, closing the local representation of the file, and reopening the local file by requesting the file system to open the file such that reads therefrom are not decrypted in order for authorized users to access their data on the WebDAV server without needing to input authentication information for every transmission (see Serlet et al., col. 6, lines 15-23).

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ranodhi Serrao whose telephone number is (571) 272-7967. The examiner can normally be reached on 8:00-4:30pm, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia can be reached on (571) 272-3880. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).